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COMMITTEE ON THE PEACEFUL
USES OF OUTER SPACE

## INFORMATION FURNISHED IN CONFORMITY WITH THE CONVENTION ON REGISTRATION OF OBJECTS LAUNCHED INTO OUTER SPACE

### Note verbale dated 12 June 1998 from the Permanent Mission of the United States of America to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the United States of America to the United Nations (Vienna) presents its compliments to the Secretary-General of the United Nations and, in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space,* has the honour to transmit the registration data for the United States space launches for the period July 1997-December 1997 (see annex).

*See General Assembly resolution 3235 (XXIX), annex, of 12 November 1974.

V.98-54610 (E)

**Annex***

## REGISTRATION DATA FOR UNITED STATES SPACE LAUNCHES

The following report supplements the registration data for the United States launches as of 31 July 1997.
All launches were made from the territory of the United States unless otherwise specified.

| International Designation | Date of Launch | Nodal Period | Inclination deg | Apogee km | Perigee km | General Function of Space Objects |
|---|---|---|---|---|---|---|
| The following objects were launched since the last report and remain in orbit: | | | | | | |
| 1997-034A | 9 July 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-034B | 9 July 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-034C | 9 July 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-034D | 9 July 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-034E | 9 July 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-034F | 9 July 97 | 93.5 | 82.7 | 627 | 264 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |

*The registration data are reproduced in the form in which they were received.

| | | | | | | |
|---|---|---|---|---|---|---|
| 1997-035A | 23 July 97 | 356.7 | 39.2 | 20376 | 191 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-035B | 23 July 97 | 100.3 | 37.7 | 1344 | 199 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-035C | 23 July 97 | 355.7 | 39 | 20371 | 132 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-036B | 28 July 97 | 1914.9 | 25.5 | 89180 | 225 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| The following objects not previously reported have been identified since the last report: | | | | | | |
| 1994-029ACA | 5/19/94 | 103.2 | 82.2 | 1297 | 550 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| The following objects not previously reported have been identified since the last report but are no longer in orbit as of 2400Z 31 July 1997: | | | | | | |
| NONE | | | | | | |
| The following objects achieved orbit since the last report but are no longer in orbit as of 2400Z on 31 July 1997 | | | | | | |
| 1997-032A | 07/01/97 | 90.5 | 28.4 | 310 | 295 | Reusable space transportation systems |
| The following objects identified on a previous report are no longer in orbit as of 2400Z on 31 July 1997: | | | | | | |
| 1970-025GP, 1989-089S, 1994-029Z, 1994-29JC, 1994-29JH, 1994-029KG, 1994-029KV, 1994-029TV, 1994-029YY, 1994-029ZG | | | | | | |
| The following objects were launched since the last report but did not achieve orbit: | | | | | | |
| NONE | | | | | | |
| Revisions that should be made to previously reported data: | | | | | | |
| NONE | | | | | | |

## REGISTRATION DATA FOR UNITED STATES SPACE LAUNCHES

The following report supplements the registration data for the United States launches as of 31 August 1997.
All launches were made from the territory of the United States unless otherwise specified.

| International Designation | Date of Launch | Nodal Period | Inclination deg | Apogee km | Perigee km | General Function of Space Objects |
|---|---|---|---|---|---|---|
| The following objects were launched since the last report and remain in orbit: | | | | | | |
| 1997-037A | 1 August 97 | 99 | 98.215 | 712 | 697 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-037B | 1 August 97 | 90.57 | 98.28 | 309 | 291 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-040A | 8 August 97 | 1436.3 | 0 | 35798 | 35781 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-043A | 21 August 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-043B | 21 August 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-043C | 21 August 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-043D | 21 August 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1997-043E | 21 August 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-043F | 21 August 97 | 92.173 | 82.73 | 549.5 | 212.6 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-044A | ..2 August 97 | | | | | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-044B | 22 August 97 | 89.6 | 97.6 | 278 | 262 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-045A | 25 August 97 | | | | | |
| 1997-045B | 25 August 97 | | | | | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-046A | 28 August 97 | 1436.2 | 0.1 | 35831 | 35746 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-047A | 29 August 97 | 101.2 | 70 | 843 | 810 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-047B | 29 August 97 | 101.2 | 70 | 840 | 810 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| The following objects not previously reported have been identified: | | | | | | |
| 1981-059F | 23 June 81 | 101.9 | 98.7 | 877 | 833 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1981-059G | 23 June 81 | 101.7 | 98.7 | 866 | 823 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1981-070M | 3 August 81 | 410.1 | 88.6 | 23246 | 564 | Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects |

| | | | | | | |
|---|---|---|---|---|---|---|
| The following objects not previously reported have been identified since the last report but are no longer in orbit as of 2400Z 31 August 1997: | | | | | | |
| NONE | | | | | | |
| The following objects achieved orbit since the last report but are no longer in orbit as of 2400Z on 31 August 1997: | | | | | | |
| 1997-039A | 7 August 97 | 89.5 | 56.9 | 253 | 249 | Reusable space transportation systems |
| 1997-039B | 7 August 97 | 90.3 | 57 | 296 | 282 | Space engaged in investigating of spaceflight techniques and technology |
| The following objects identified on a previous report are no longer in orbit as of 2400Z on 31 August 1997 | | | | | | |
| 1963-014EE, 1989-089T, 1994-29CT, 1994-29JT, 1994-029KD, 1994-029MQ, 1994-029NK, 1994-029PT, 1994-029QY, 1994-029SA, 1994-029TD, 1994-029TM, 1994-029TN | | | | | | |
| The following objects were launched since the last report but did not achieve orbi: | | | | | | |
| NONE | | | | | | |
| Revisions that should be made to previously reported data: | | | | | | |
| NONE | | | | | | |

## REGISTRATION DATA FOR UNITED STATES SPACE LAUNCHES

The following report supplements the registration data for the United States launches as of 30 September 1997.
All launches were made from the territory of the United States unless otherwise specified.

| International Designation | Date of Launch | Nodal Period | Inclination deg | Apogee km | Perigee km | General Function of Space Objects |
|---|---|---|---|---|---|---|
| The following objects were launched since the last report and remain in orbit: | | | | | | |
| 1997-050A | 4/97 | 1439.44 | 0.051 | 35953 | 35752 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-050B | 4 September97 | 792 | 19.06 | 43649 | 307 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-052B | 23 September 97 | 104.4 | 82.9 | 993 | 936 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-055A | 26 September 97 | 92.3 | 51.6 | 391 | 383 | Reusable space transportation systems |
| 1997-056A | 27 September 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-056B | 27 September 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-056C | 27 September 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1997-056D | 27 September 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-056E | 27 September 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-056F | 27 September 97 | 92.897 | 83.706 | 549 | 284 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| The following objects not previously reported have been identified since the last report: | | | | | | |
| 1966-040C | 15 May 66 | 108 | 100.5 | 1177 | 1089 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1981-059H | 23 June 81 | 101.6 | 98.7 | 878 | 792 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACB | 19 May 94 | 97.2 | 82.1 | 745 | 505 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACC | 19 May 94 | 98.6 | 81.7 | 879 | 540 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACD | 19 May 94 | 102.2 | 81.8 | 1134 | 630 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACE | 19 May 94 | 106 | 82.4 | 1548 | 529 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACF | 19 May 94 | 103 | 82 | 1232 | 608 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |

| | | | | | | |
|---|---|---|---|---|---|---|
| The following objects not previously reported have been identified since the last report but are no longer in orbit as of 2400Z 30 September 1997: | | | | | | |
| 1994-029ACG | 19 May 94 | 92.6 | 83 | 439 | 363 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| The following objects achieved orbit since the last report but are no longer in orbit as of 2400Z on 30 September 1997: | | | | | | |
| NONE | | | | | | |
| The following objects identified on a previous report are not longer in orbit as of 2400Z on 30 September 1997: | | | | | | |
| 1963-014EB, 1963-014ED, 1898-089AM, 1994-29AD, 1994-29BL, 1994-029CR, 1994-029CW, 1994-029DC, 1994-029MC, 1994-029SQ, 1994-029UB, 1994-029UJ, 1994-029VN, 1994-029XQ, 1994-029ZL, 1994-029AAB, 1994-029AAV, 1994-029ABV, 1994-037B, 1997-044A | | | | | | |
| The following objects were launched since the last report but did not achieve orbit: | | | | | | |
| NONE | | | | | | |
| Revisions that should be made to previously reported data: | | | | | | |
| NONE | | | | | | |

## REGISTRATION DATA FOR UNITED STATES SPACE LAUNCHES

The following report supplements the registration data for the United States launches as of 31 October 1997.
All launches were made from the territory of the United States unless otherwise specified.

| International Designation | Date of Launch | Nodal Period | Inclination deg | Apogee km | Perigee km | General Function of Space Objects |
|---|---|---|---|---|---|---|
| The following objects were launched since the last report and remain in orbit: | | | | | | |
| 1997-059A | 4 October 97 | 1436.1 | 0 | 35791 | 35785 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-059B | 4 October 97 | 667.4 | 25.9 | 37766 | 177 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-061A | 15 October 97 | (No available data) | | | | Spacecraft engaged in investigation of spaceflight techniques and technology |
| 1997-061B | 15 October 97 | (No available data) | | | | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-063A | 22 October 97 | 94 | 44.9 | 509 | 442 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-063B | 22 October 97 | 94 | 45 | 504 | 440 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-064A | 24 October 97 | 95.6 | 57 | 679 | 422 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-064B | 24 October 97 | 95.6 | 57 | 672 | 426 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1997-065A | 25 October 97 | 619.1 | 25.3 | 35771 | 316 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 199[illegible] 065B | 25 October 97 | 622.3 | 26.4 | 35294 | 241 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-065C | 25 October 97 | 1424.9 | 0 | 35602 | 35533 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| The following objects not previously reported have been identified since the last report: | | | | | | |
| 1994-029ACH | 19 May 94 | 92.8 | 82 | 431 | 396 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACJ | 19 May 94 | 105 | 82.1 | 1439 | 587 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACK | 19 May 94 | 116.1 | 81.6 | 2466 | 582 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACL | 19 May 94 | 105.3 | 81.5 | 1518 | 535 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACM | 19 May 94 | 101.7 | 81.5 | 1122 | 579 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACN | 19 May 94 | 101.7 | 81.5 | 1122 | 579 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACP | 19 May 94 | 105 | 81.7 | 1399 | 620 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACQ | 19 May 94 | 104.9 | 81.6 | 1397 | 611 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACR | 19 May 94 | 105.9 | 82.3 | 1513 | 584 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1994-029ACS | 19 May 94 | 106.6 | 81.6 | 1537 | 609 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACT | 19 May 94 | 108.5 | 81.5 | 1744 | 570 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACU | 19 May 94 | 106.4 | 82.9 | 1537 | 585 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACV | 19 May 94 | 105.1 | 81 | 1440 | 566 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACW | 19 May 94 | 105.4 | 82.1 | 1467 | 588 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACX | 19 May 94 | 103.5 | 82 | 1303 | 589 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACY | 19 May 94 | 104.9 | 82.4 | 1496 | 511 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ACZ | 19 May 94 | 104.9 | 82.1 | 1304 | 526 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ADA | 19 May 94 | 106.6 | 82.6 | 1564 | 572 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ADB | 19 May 94 | 95.3 | 80.5 | 949 | 455 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ADC | 19 May 1994 | 98.8 | 81.8 | 975 | 542 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ADD | 19 May 94 | 105 | 82.2 | 1388 | 628 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ADE | 19 May 94 | 100.2 | 81.1 | 1023 | 530 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1994-029ADF | 19 May 1994 | 98.4 | 82 | 783 | 581 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1994-029ADG | 19 May 94 | 93.2 | 82 | 463 | 420 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1968-081G | 26 September 68 | 1425.3 | 13.3 | 36082 | 35068 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1968-081H | 26 September 68 | 1415.8 | 13.3 | 35720 | 35056 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| The following objects not previously reported have been identified since the last report but are no longer in orbit as of 2400Z 31 October 1997: | | | | | | |
| NONE | | | | | | |
| The following objects achieved orbit since the last report but are no longer in orbit as of 2400Z on 31 October 1997: | | | | | | |
| NONE | | | | | | |
| The following objects identified on a previous report are no longer in orbit as of 2400Z on 31 October 1997: | | | | | | |
| 1963-014FC, 1989-089AG, 1994-029AH, 1994-029BA, 1994-029DE, 1994-029LT, 1994-029MW, 1994-029NL, 1994-029NM,1994-029QH, 1994-029TC, 1994-029SR, 1994-029SS, 1994-029UR, 1994-029VK, 1994-029XA, 1994-029XX, 1994-029YD, 1994-029ZK, 1994-029ZZ, 1994-029AAA, 1994-029AAS, 1994-029AAY, 1994-029ABZ, 1997-043F | | | | | | |
| The following objects were launched since the last report but did not achieve orbit: | | | | | | |
| NONE | | | | | | |
| Revisions that should be made to previously reported data: | | | | | | |
| NONE | | | | | | |

## REGISTRATION DATA FOR UNITED STATES SPACE LAUNCHES

The following report supplements the registration data for the United States launches as of 30 November 1997.
All launches were made from the territory of the United States unless otherwise specified.

| International Designation | Date of Launch | Nodal Period | Inclination deg | Apogee km | Perigee km | General Function of Space Objects |
|---|---|---|---|---|---|---|
| The following objects were launched since the last report and remain in orbit: | | | | | | |
| 1997-067A | 6 November 97 | 720.4 | 54.9 | 20643 | 19871 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-067B | 6 November 97 | 94.9 | 35.2 | 569 | 468 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-067C | 6 November 97 | 352.3 | 35 | 20107 | 192 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-068A | 8 November 97 | 712.8 | 63.6 | 39012 | 1098 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-068B | 8 November 97 | 708.9 | 64.3 | 38839 | 1075 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-069A | 9 November 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-069B | 9 November 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1997-069C | 9 November 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-069D | 9 November 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-069E | 9 November 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-069F | 9 November 97 | 93 | 83.6 | 603 | 261 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-073A | 9 November 97 | 90.2 | 28.5 | 286 | 281 | Reusable space transportation systems |
| 1997-073B | 9 November 97 | 90.2 | 28.5 | 288 | 283 | Spacecraft engaged in research and exploration of the upper atmosphere or outer space |
| 1997-074A | 7 November 97 | 92.1 | 35 | 385 | 385 | Spacecraft engaged in research and exploration of the upper atmosphere or outer space |
| The following objects not previously reported have been identified since the last report: | | | | | | |
| 1978-064J | 27 June 78 | 99.5 | 108 | 742 | 729 | Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects |
| 1991-047E | 4 July 91 | 146.9 | 37.6 | 5529 | 177 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1989-085D | 21 October 89 | 164.7 | 37.4 | 6985 | 178 | Spent booster, spent maneuvering stages, shrouds and other non-functional objects |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1964-026H | 4 June 64 | 100.0 | 90.5 | 847 | 776 | Spent boosters, spent maneuvering stages, shrouds and other non-funtional objects |
| The following objects not previously reported have been identified since the last report but are no longer in orbit as of 2400Z 30 November 1997: | | | | | | |
| NONE | | | | | | |
| The following objects achieved orbit since the last report but are no longer in orbit as of 2400Z on 30 November 1997: | | | | | | |
| NONE | | | | | | |
| The following objects identified on a previous report are no longer in orbit as of 2400Z on 30 November 1997: | | | | | | |
| 1989-89AQ, 1996-068B, 1994-029AF, 1994-029AM, 1994-029AX, 1994-029DP, 1994-029HS | | | | | | |
| The following objects were launched since the last report but did not achieve orbit: | | | | | | |
| NONE | | | | | | |
| Revisions that should be made to previously reported data: | | | | | | |
| NONE | | | | | | |

## REGISTRATION DATA FOR UNITED STATES SPACE LAUNCHES

The following report supplements the registration data for the United States launches as of 31 December 1997.
All launches were made from the territory of the United States unless otherwise specified.

| International Designation | Date of Launch | Nodal Period | Inclination deg | Apogee km | Perigee km | General Function of Space Objects |
|---|---|---|---|---|---|---|
| The following objects were launched since the last report and remain in orbit: | | | | | | |
| 1997-078A | 8 December 97 | 1436.26 | 0.023 | 35802 | 35778 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-078B | 8 December 97 | 925 | 26.74 | 49947 | 193 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-082A | 20 December 97 | 100.47 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-082B | 20 December 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-082C | 20 December 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-082D | 20 December 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-082E | 20 December 97 | 100.467 | 86.4 | 780 | 780 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1997-082F | 20 December 97 | 93.1 | 83.6 | 605 | 265 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-084A | 23 December 97 | 101.3 | 45.02 | 824 | 820 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-084B | 23 December 97 | 101.3 | 45.02 | 824 | 820 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-084C | 23 December 97 | 101.3 | 45.02 | 824 | 820 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-084D | 23 December 97 | 101.3 | 45.02 | 824 | 820 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-084E | 23 December 97 | 101.3 | 45.02 | 824 | 820 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-084F | 23 December 97 | 101.3 | 45.02 | 824 | 820 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-084G | 23 December 97 | 101.3 | 45.02 | 824 | 820 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-084H | 23 December 97 | 101.3 | 45.02 | 824 | 820 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| 1997-084J | 23 December 97 | 94.8 | 44.97 | 740 | 287 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1997-084K | 23 December 97 | 97 | 42.68 | 823 | 416 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1997-085A | 24 December 97 | 94.2 | 97.3 | 489 | 482 | Spacecraft engaged in practical applications and uses of space technology such as weather or communications |
| The following objects not previously reported have been identified since the last report: | | | | | | |
| 1966-077R | 19 August 66 | 165.7 | 89 | 5443 | 1789 | Spent boosters, spent manoeuvering stages, shrouds and other non-functional objects |
| 1994-029ADH | 19 May 94 | 90.1 | 81.6 | 291 | 268 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1996-049H | 21 August 96 | 129.5 | 83 | 3880 | 339 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1993-032D | 1 May 94 | 322.9 | 34.8 | 18208 | 216 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1990-103D | 26 November 90 | 183.9 | 34.5 | 8505 | 174 | Spent boosters, spent maneuvering stages, shrouds and other non-functional objects |
| 1967-065D | 29 June 67 | 171.8 | 90.2 | 3991 | 3746 | Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects |
| 1967-065E | 29 June 67 | 172.4 | 90 | 3920 | 3888 | Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects |
| The following objects not previously reported have been identified since the last report but are no longer in orbit as of 2400Z 31 December 1997: | | | | | | |
| NONE | | | | | | |

| International Designation | Date of Launch | Nodal Period | Inclination deg | Apogee km | Perigee km | General Function of Space Objects |
|---|---|---|---|---|---|---|
| The following objects achieved orbit since the last report but are no longer in orbit as of 2400Z on 31 December 1997: | | | | | | |
| NONE | | | | | | |
| The following objects identified on a previous report are no longer in orbit as of 2400Z on 31 December 1997: | | | | | | |
| 1989-089AW, 1989-089AN, 1996-031A, 1994-029CL, 1994-029FT, 1994-029NV, 1994-029QP, 1994-029RA, 1994-029RG, 1994-029UK, 1994-029UT, 1994-029WA, 1994-029XL, 1994-029YB, 1994-029YQ, 1994-029ABA, 1994-029ACB, 1994-029 ACG, 1994-029ACH, 1994-029ADB, 1997-073A, 1997-073B | | | | | | |
| The following objects were launched since the last report but not achieve orbit: | | | | | | |
| NONE | | | | | | |
| Revisions that should be made to previously reported data: | | | | | | |
| NONE | | | | | | |